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- a) providing a system for investigation samples utilizing electromagnetic radiation comprising multiple chambers, each of said chambers comprising means for controlling the ambient atmosphere therewithin to be the same or different than is present in the other chambers, said system further comprising means for providing a beam of electromagnetic radiation and causing it to interact with a sample system then be detected;
- b) placing a sample into one of said chambers;
- c) causing said means for providing a beam of electromagnetic radiation to provide a beam of electromagnetic radiation and direct it to interact with a sample system present in one of said chambers, then enter said detector and be detected.

3. A system for investigation samples utilizing electromagnetic radiation comprising a single chamber, said chamber comprising means for controlling the ambient atmosphere therewithin, said system further comprising in said chamber means for providing a beam of electromagnetic radiation and causing it to interact with a sample system then be detected.

4. A method of investigating the effect of atmospheric components on a sample comprising the steps of:

- a) providing a system for investigation samples utilizing electromagnetic radiation comprising a single chamber, said chamber comprising means for controlling the ambient atmosphere therewithin, said system further comprising in said chamber means for providing a beam of electromagnetic radiation and causing it to interact with a sample system then be detected.
- b) causing said means for providing a beam of electromagnetic radiation to provide a beam of electromagnetic radiation and direct it to interact with a sample system, then enter said detector and be detected.